INSTRUCTION MANUAL

# ELECTRIC



# SEMING MACHINE

E-Z-ADJUST STITCH SELECTOR

FOREWORD • TO SET THE NEEDLE

THE BOBBIN CASE . TO WIND THE BOBBIN

TO THREAD THE BOBBIN CASE . THREADING THE MACHINE

TO PREPARE FOR SEWING . THE DROP FEED

TO REMOVE LINT . TO REGULATE LENGTH OF STITCH

TENSIONS . TO OIL THE MACHINE

SEWING HINTS . SEWING MACHINE PARTS

# WELCUME

Welcome to the growing family of happy owners of the new E-Z-Adjust Stitch Regulator sewing machine. You now have one of the finest full-size sewing machines made, with all these wonderful features:

- E-Z-ADJUST STITCH REGULATOR with its large E-Z-Adjust dial stitchlength inalcetor.
- . INSTANT REVERSE-SEWING by just flicking a lever.
- DROP-FEED for embroidery and darning.
- . BUILT-IN DARNER.
- NUMBERED THREAD TENSION DIAL.
- AUTOMATIC BOBBIN WINDER, Self-adjjusting.
- · HINGED PRESSER FOOT that rides over pins, seams, etc.
- AUTOMATIC TENSION RELEASE.
- NOTCHED SHUTTLE HOOK that prevents thread from tangling.
- . SNAP-OUT RACE for convenience in cleaning.

This machine is precision-built for a lifetime of sewing pleasure. It well require a minimum amount of servicing, and will give the maximum in satisfaction. Needles, bobbins and other parts are interchangeable with those of other first class merufacturess.

This manual provides all the information needed to operate the machine and to care for it properly, Pierce, read through the book thoroughly so that you may become familiar with the behavior and operation of the machine. Follow all instructions closely.

Several service calls may be necessary to 'adjust this machine to your individual needs, and to eliminate any stiffness which may be present in a new machine. So do not hesitate to call on your Authorized Dealer for any adjustment needed during the initial break-in period.

TO REPLACE THE NEEDLE

Use standard 15×1 needles available at any sewing machine store.

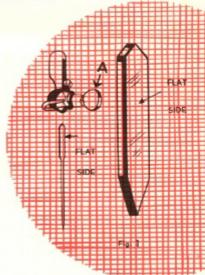
To replace the needle, raise the needle bar to its highest point by turning the balance wheel (Fig. 3) TOWARD YOU by hand. Loosen the needle clamp screw (A) on the right hand side and the needle clamp will open, allowing the old needle to fall out.

Remove the old needle and slide the new needle up (FLAT SIDE TOWARD THE BALANCE WHEEL) as fer as it will go. When the needle hits the stop it is in position correctly. Now fasten the needle clamp securely. For best results change needles frequently.

#### NEEDLES AND THREAD

Never use a bent needle, nor one with a blunt point, since this causes imperfect stitches and may cause the needle to break.

The size of the needle should conform to the size of the thread and both should be suitable to the material. Use a needle sufficietly large to permit the thread to pass freely through the eye. In general sewing, use the same size thread in the bobbin as is used on top.







#### IMPORTANT

In the following operations the needle must always be ABOVE the surface of the machine. Raise the needle by turning the balance wheel TO-WARD YOU by hand.



Fig. 2

#### REMOVING THE BOBBIN CASE

Pull out the slide plate. With left thumb and forefinger, open hinged latch (Fig. 2) at the front of the bobbin case and hold securely you withdraw bobbin case from around the holder post. When held in above manner the bobbin will not fall out of the bobbin case.

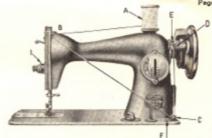
#### INSERTING THE BOBBIN CASE

After winding a fresh bobbin and threading the bobbin case (see pages 5 and 6), hold the bobbin case latch with left thumb and forefinger, (as explained above) to prevent the bobbin from falling out. Keeping the protruding finger topside toward the delivery eye, press the bobbin case around the holder post until the finger enters the delivery eye. When in correct position a stud on the holder post will catch the latch mechanism holding the bobbin case firmly in place. This operation is easy—NEVER FORCE IT. The three or four inches of thread hanging free from the bobbin case will be brought up through the needle plate stitch hole as shown on page 8.

TO WIND THE BOBBIN



balance



Loosen the balance wheel by turning the stop-motion knob toward you (Fig. 3) and place a spool of thread on the spool pin

(A). Pass the end of the thread through the notch on front upper left corner of machine (B), and through the disk at the bottom right of the machine from below (C). Then wind the bobbin seven or eight times with the free end of the thread, and put the threaded bobbin on the spindle of the bobbin winder (D).

Press the bobbin on the spindle with the left hand, and make sure that it is pressed to the end of the spindle, until the slot in the bobbin fits into the pin on the spindle. Exert a little pressure between the bobbin and the rubber wheel until the latter presses right against the hub of the balance wheel, and the clasp (E) retains the winder in position. Turn the balance wheel toward you by hand, and proceed to operate the rheostat control, as in sewing until bobbin is almost full. Then break off the thread, and detach the bobbin from the spindle.

Should the thread not wind evenly on the bobin, loosen the screw (F) which holds the tension bracket in position on the bed of the machine, and slide the tension bracket to the right or left, as desired then tighen the screw.

TO THREAD THE BOBBIN CASE



Hold the bobbin case between the left thumb and forefinger with the slot up. With 5 or 6 inches of thread trailing in the palm, hold the bobbin between the thumb and first two fingers of the right hand. Fig. 4

Insert the bobbin into the bobbin case and pull the trailing thread into the slot, down and to the left until it enters the delivery eye under the tension spring. Fig. 5

There should be a slight tension on the thread as it is pulled through the delivery eye and the bobbin should unwind freely. The tension may be increased by turning the tension screw to the RIGHT and decreased by turning the screw to the LEFT. Fig. 6



THREADING THE MACHINE



Turn the balance wheel by hand towards you until the takeup lever (A) is at its highest point. Place a spool of thread on the spool pin on the top right of the machine: pass the thread through the notch (B) on the back left of the machine : down between the tension disks (C) from the back; up over the tension thread guard (D) from behind; down into the hook of the take-up spring (E) up and through the hole in the end of the take-up lever (A) from the back; down through the eyelet (F) in the front of the face plats, and into the wire thread guide (G) at the lower end of the needle bar; then from left to right through the eye of the needle (H). Draw about 4 inches of thread through the eye of the needle with which to commence sewing.

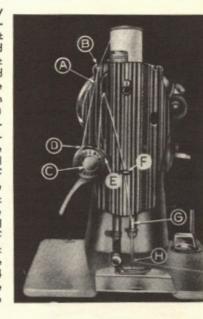


Fig. 7

TO PREPARE FOR SEWING

## IMPORTANT NOTICE

Never operate the machine without material under the presser foot. If this is not strictly adhered to, your machine will lock, and cannot be operated until the thread is cleaned out of the race.



Fig. 8



Fig. 9

Pick up the thread as follows: Holding the loose end of the needle thread in your left hand, turn the balance wheel toward you by hand until the needle moves down and up again to its highest point. Pull the needle thread gently, and the bobbin thread will come up with it in the form of a loop through the needle hole. With your finger, pull this loop until the end of the thread appears. (If the bobbin thread does not rise, check to see if at least 5 or 6 inches of bobbin thread is hanging loosely from the bobbin case.) Then draw both ends of the thread back under the presser foot and through the toes of the presser foot.

#### FOR EMBROIDAERY & DARNING

This machine is fitted with both a dropfeed mechanism and a built-in derning device which enable you to darn, sewrips and patches, and do embroidery and applique works.

TO WORK THE DROP-FEED, simply turn the drop-feed knob to the right to EMBR. - a quarter-turn. The feed dog then is cut of the way.

For regular sewing turn the knob back to its norml position (NORM)

If you want to sew the fine fabric, silk etc., you will get good result to press the darner at medium height, and the drop feed knob in silk postion.

#### TO START SEWING

Place the material to be sewn beneath the presser foot, and lower the presser foot lever. Insert needle into material by turning the balance wheel toward you, from top to down, by hand. Regulate stitch to desired size, and start sewing. Do not try to help the feeding of the work by pulling the material, as this may bend the needle and cause it to become blunt or break. As the machine feeds without any assistance, it is sufficient marely to guide the fabric gently by hand in the direction you want it to be sewn.

IT IS ADVISABLE TO TEST THE TENSION AND THE STITCH LENGTH ON TWO PLIES OF SCRAP MATERIAL BEFORE STARTING TO SEW THE ACTUAL GARMENT.





Fig. 10

#### TO REMOVE THE WORK

Stop the machine by relearing the pressure on the rheostet control and stopping the balance wheel with the right hand. Raise the needle to its highest point and raise the presser foot by lifting the presser foot lever with either hand. Now draw the sewn fabric back and to the left about eight inches and cut the trailing threads.

## REMOVE LINT

TO

# To Remove Accumulated Lint or Thread from "E-Z Clean" Race

- Turn balance wheel by hand until needle is at its highest point.
  - 2. Remove bobbin and bobbin case.
  - 3. Turn knob (A) one half turn toward you.
  - 4. Turn knob (B) one half turn away from you.
- Remove retaining ring (C), and hook (D) by grasping axle of hook (D).
   Remove accumulated lint and thread from retaining ring, hook
- and race body.

  7. Replace hook (D) in race body, with axle facing out, forming
- a perfect circle with Driver (E).

  8. Replace retaining ring (C), polished side out, so that both
- Replace retaining ring (C), polished side out, so that both groves are under knobs (A) and (B).
- Lock retaining ring with knobs (A) and (B).
- 10. Replace bobbin and bobbin case, and commence sewing.
- DO NOT ATTEMPT TO FORCE ANY OF THE ABOVE OPERATIONS.



TO REGULATE LENGTH OF STITCH







Fig. 12

The length of stitch and reversal of stitching, both are regulated by Regulator Lever fixed on the surface of the Arm close to pulley.

The feeding action is augmented and consequently the stitch length widened by pushing the Regulator Lever downward which is to be kept lightly in position with the screw on the left side of the Round metal plate, which must be moved over to suit the purpose.

On the other hand the length of stitch shortens as the Regulator Lever is pushed upward but below the center of the Round plate.

Therefore the desired length of stitch is obtained in either the normal or reversed state by pinning tight to the exact position, the screw attached thereon, which would guarantee a uniform length of stitch.

To sew in reverse, first reduce the speed of pulley and before finishing sewing stop the wheel by hand. Then raise the Regulator Lever upward from the center line. This Lever is brought up to any point where a desired length of stitch is required and secured in place tight by the screw which may follow the regulator upward or downward.

### TENSIONS

For perfect stitching, the tension on the upper and under threads should be equal, and just sufficiently strong to lock both threads in the center of the work (A).



A) Fig. 13

If the tension on the needle thread is too tight, or if that on the bobbin thread is too loose, the needle thread will lie straight along the upper surface of the material, making an imperfect stitch (B).



If the tension of the bobbin thread is too tight, or if that on the needle thread is too loose, the bobbin thread



will lie straight along the under side of the material, making an imperfect stitch (C).



REGULATING THE NEEDLE TENSION: Minor imperfections in the stitch can usually be corrected by yaring the needle tension only.



To increase the tension, turn the thumb nut (diagram) clockwise; to lessen the tension, turn the nut in the opposite direction. The tension adjusts from 0 to 9 in one 360° turn, with 0 being the lightest tension and 9 being the tighest.

All adjustments should be made gradually, not abruptly, and the required tension setting will vary with the size of thread being used. A little practice will make instant tension adjustments possible. All adjustments should be made while the presser foot is down since an automatic release does not permit adjustments to be made when the foot is up.

If a perfect stitch cannot be obtained by adjusting the needle thread tension, it may be necessary to adjust the bobbin thread tension.

The machine is correctly adjusted before leaving the factory and checked and readjusted before the dealer delivers it to you.

A careful regulation of the tensions on this machine will assure you of the finest seams that mechanical design will produce.

TO OIL THE MACHINE

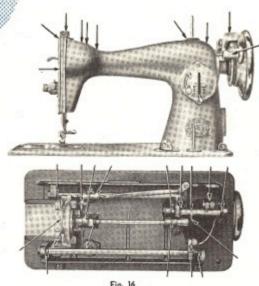


Fig. 16

A sewing mechine never needs grease. All moving parts which come in contact with others, must be covered with a film of oil, and should not be allowed to become dry. Oil, when necessary, should be applied at the points indicated by the arrows in Fig. (16), a drop of oil being sufficient at any one place. Oil should be applied freely at all contact points on the underside of the machine. A few drops of oil in the bobbin race will help your machine to run freely.

When oiling, insert the oil can nozzle well into the oil holes.

After oiling, run the machine rapidly for a few minutes, so that the oil may penetrate into the bearings. For the proper care of your machine oil frequently. Neglecting to do this tends to shorten the life of the machine, and may cause trouble and annoyance.

NOTE: USE SEWING MACHINE OIL ONLY.



SKIPPED STITCHES. May be caused by a bent or blunt needle; or by incorrect setting of the needle; or the wrong size needle; or by a thread too heavy for the size of the needle.



SEE THAT THE PRESSER FOOT is snug against the presser bar and securely clamped by the screw so that the needle will pass through the opening in the foot without any interference.

BREAKING NEEDLES. Usually due to pulling on the work, causing the needla to get out of line and strike the throat plate, thes breaking or bending the needle. May be due to presser foot or attachments not being securely fastened to presser bar. Be sure to use correct size needle and thread for material.

## BREAKING THE UPPER THREAD. May be caused by:

- (1) Incorrect threading.
- (2) Not bringing up under thread correctly.
- (3) Upper tension too tight.
- (4) Needle imperfect, or set incorrectly.
- (5) Needle rubbing against attachments or presser foot.
- (6) Needle eye too small for thread.
- (7) Starting the machine at full speed.
- (8) Starting without take-up lever at highest point.

### BREAKING THE LOWER THREAD. May be caused by:

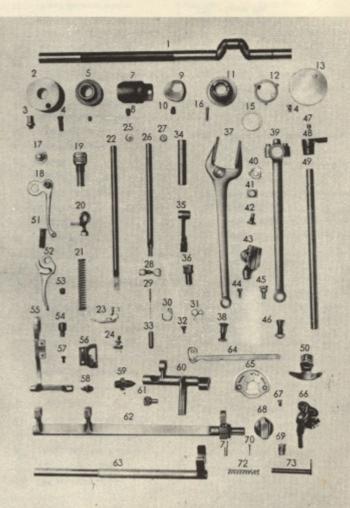
- (1) Incorrect threading of bobbin case.
- (2) Too tight a tension.
- (3) Bobbin wound too full to revolve freely.
- (4) Not bringing up under thread correctly.
- (5) Hole in the needle plate rough, caused by needle striking the plate.
- (6) Dust or lint in bobbin.

#### UNEVEN STITCHES. May be caused by:

- (1) Presser foot not resting evenly on material.
- (2) Feed not high enough.
- (3) Too short a stitch.
- (4) Pulling the cloth.
- (5) Too fine a needle with too coarse or poor a thread.



## SEWING MACHINE PARTS





# SEWING MACHINE PARTS

| Key No. | Parts Mame                           | Key No. | Parts Mame                                     |
|---------|--------------------------------------|---------|--|
| 1       | Main Shaft                           | 31      | Thread Cutter                                  |
| 2       | Thread Take Up Cam                   | 32      | Set Screw For Needle Bar Thread<br>Guide       |
| 3       | Stud Screw and Nut for Thread        | 33      | Taper Pin for Lower Shafe Crank                |
|         | Take Up Cam ·                        | 34      | Needle Bar Bearing                             |
| 4       | Thread Take Up Cam Scrow             | 35      | Needle Bar Connecting Link                     |
| 5       | Main Shaft Bearing                   | 36      | Needle Bar Stud                                |
| 6       | Main Shaft Bearing Set Screw         | 37      | Forked Connecting Rod                          |
| 7       | Counter Balance                      | 38      | Feed Forked Connection Hinge                   |
| 8       | Counter Balance Set Screw            |         | Screw with Nut                                 |
| 9       | Feed Cam                             | 39      | Crank Rod                                      |
| 10      | Feed Cam Set Screw                   | 40      | Rock Washer                                    |
| - 11    | Balance Wheel Bushing                | 41      | Slide Block for Feed Regulator                 |
| 12      | Washer for Stop Motion Screw         | 42      | Stud Screw for Feed Regulator                  |
| 13      | Clamp Stop Motion Clamp Screw        |         | Slide Block                                    |
| 14      | Stop Screw for Clamp Screw           | 43      | Feed Regulator                                 |
| 15      | Cap for Thread Take Up Lever<br>Hole | 44      | Set Screw for Hinged Stud Screw                |
| 16      | Taper Pin for Balance Wheel          | 45      | Hinged Stud Screw for Feed<br>Regulator        |
|         | Bushing                              | 46      | Crank Rod Taper Screw with Nut                 |
| 17      | Thread Take Up Lever Stud<br>Scrow   | 47      | Set Screw for Lower Shaft Crank                |
| 18      | Thread Take Up Lever Assembly        | 48      | Lower Shaft Crank                              |
| 19      | Derner                               | 49      | Lower Shaft                                    |
| 20      | Presser Bar Spring Brecket           | 50      | Shuttle Driver with Spring                     |
| 21      | Presser Spring                       | 51      | Presser Bar Lifter Pin                         |
| 22      | Presser Bar                          | 52      | Presser Bar Lifter                             |
| 23      | Presser Foot Thumb Screw             | 53      | Set Screw for Presser Bar Lifter<br>Pin        |
| 25      | Oil Cap for Needle Bar               | 54      | Slide Roller and Stud for Drop<br>Feed Bracket |
| 26      | Needle Bar                           | 55      | Feed Bar                                       |
| 27      | Oil Cap for Arm                      | 56      | Feed Dog                                       |
| 28      | Needle Clamp                         | 57      | Feed Dog Set Screw                             |
| 29      | Needle                               | 58      | Taper Center Screw for Feed Bar                |
| 30      | Needle Bar Thread Guide              |         |  |

| 59 Toper Center Screw with Nut 60 Oscilating Rock Shaft 61 Lower Shaft Crank Slide Block 62 Horizontal Feed Rock Shaft 63 Vertical Feed Rock Shaft 64 Drop Feed Connecting Rod 65 Drop Feed Plate 66 Drop Feed Plate 67 Drop Feed Rock Shaft 68 Drop Feed Rock Assembly 69 Drop Feed Rock 69 Drop Feed Knob 69 Drop Feed Rod Beering 70 Cotter Pin 71 Hinge Stud for Drop Feed Connecting Rod 72 Drop Feed Rod Spring 73 Drop Feed Rod Spring 74 Shuttle Roce 75 Shuttle Hook 76 Bobbin Case 77 Rodill Plate 78 Shuttle Roce 79 Needle Plate 80 Slide Plate 81 Slide Plate Screw 83 Needle Plate 81 Slide Plate Spring 82 Spring Screw 84 Face Plate Assembly 85 Face Plate Screw 86 Upper Thread Tension Knob 87 Tension Dial 88 Cap Washar for Tension Dial 89 Upper Thread Tension Spring 90 Cap for Tension Dial 91 Thread Release Washer 92 Tension Disc  | Key No. | Parts Name                  | Key No. | Parts Name                                     |
|--|---------|-----------------------------|---------|--|
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| 61 Lower Shaft Crank Slide Block 62 Horizontal Feed Rock Shaft 63 Vertical Feed Rock Shaft 64 Drop Feed Connecting Rod 65 Drop Féed Plate 66 Drop Feed Plate 67 Drop Feed Bracket Assembly 68 Drop Feed Rod Bearing 68 Drop Feed Knob 69 Drop Feed Rod Bearing 70 Cotter Pin 71 Hinge Stud for Drop Feed Connecting Rod 72 Drop Feed Rod Spring 73 Drop Feed Rod Spring 74 Shuttle Race 75 Shuttle Hook 76 Bobbin Case 77 Bobbin 78 Shuttle Race Screw 79 Needle Plate 80 Slide Plate 81 Slide Plate 81 Slide Plate 82 Spring Screw 83 Needle Plate Sersew 84 Face Plate Assembly 85 Tension Dial 86 Cap Washar for Tension Spring 90 Cap for Tension Dial 91 Thread Release Washer 97 Arm Slide Plate 97 Arm Slide Plate Screw 100 Stitch Dial Plate 101 Stitch Dial Plate Serew 102 Balance Wheel 103 Fixing Screw and Washer for Limitting Plate 104 Washer for Fixing Screw 105 Ball Oiler for Bobbin Winder 106 Bobbin Winder Assembly 107 Bobbin Winder Assembly 108 Bobbin Winder Assembly 109 Tag Pin 110 Head Set Screw for Head Hinge 111 Bobbin Winder Rubber Wheel 112 Cord Bushing 113 Bobbin Winder Tension Bracket 114 Accessories Box 115 Bobbin Winder Tension Bracket 116 Set Screw for Bobbin Winder 117 Motor Fasten Screw and Winder 118 Bobbin 119 V Belt 110 Stitch Dial Plate 110 Stitch Dial Plate Screw 110 Stit | 60      | Oscilating Rock Shaft       | 94      | Tension Stud                                   |
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| 63 Vertical Feed Rock Shaft 64 Drop Feed Connecting Rod 65 Drop Feed Plate 66 Drop Feed Plate 66 Drop Feed Plate 67 Drop Feed Bracket Assembly 68 Drop Feed Rod Bearing 69 Drop Feed Rod Bearing 70 Cotter Pin 71 Hänge Stud for Drop Feed Connecting Rod 72 Drop Feed Rod Spring 73 Drop Feed Knob Rod 74 Shuttle Race 75 Shuttle Hook 76 Bobbin Case 77 Bobbin 78 Shuttle Race Screw 79 Needle Plate 80 Slide Plate 81 Slide Plate Screw 83 Needle Plate Screw 84 Face Plate Screw 85 Face Plate Screw 86 Upper Thread Tension Dial 87 Cap Washar for Tension Dial 88 Cap Washar for Tension Dial 89 Upper Thread Tension Dial 91 Thread Release Washer  78 Needle 79 Rom Slide Plate Screw 98 Stitch Dial Plate Limiting Plate Limiting Plate 100 Stitch Dial Lever and Nut 101 Stitch Dial Lever and Nut 102 Balance Wheel 103 Fixing Screw and Washer for 104 Washer for Fixing Screw and Winder 105 Ball Oiler for Bobbin Winder 106 Bobbin Winder Assembly 107 Bobbin Winder Assembly 108 Name Plate Screw 109 Tag Pin 110 Head Set Screw for Head Hinge 111 Sobbin Winder Tension Bracket 112 Cord Bushing 113 Bobbin Winder Tension Bracket 114 Accessories Box 115 Selt 116 Plate Screw 117 Motor Fasten Screw and Winder 118 Bobbin 119 V Belt 121 Accessories Box 122 Oiler 123 Felt 124 Bobbin 125 Driver (Large) 126 Driver (Small) 127 Spool Pin 128 Neadle   | 62      | Horizontal Feed Rock Shaft  | 96      |  |
| 98 Stitch Dial Plate 99 Limiting Plate for Feed Regulation 100 Stitch Dial Lever and Nut 101 Stitch Dial Plate Screw 102 Balance Wheel 103 Fixing Screw and Washer for Limiting Plate 104 Washer for Fixing Screw 105 Ball Oiler for Bobbin Winder 106 Drop Feed Rod Bearing 107 Cotter Pin 108 Hinge Stud for Drop Feed Connecting Rod 108 Drop Feed Rod Spring 109 Drop Feed Rod Spring 100 Bobbin Winder Assembly 100 Bobbin Winder Assembly 101 Bobbin Winder Assembly 102 Balance Wheel 103 Fixing Screw and Washer for Limiting Plate 104 Washer for Fixing Screw 105 Ball Oiler for Bobbin Winder 106 Bobbin Winder Assembly 107 Bobbin Winder Assembly 108 Bobbin Winder Assembly 109 Tag Pin 110 Head Set Screw for Head Hinge 111 Bobbin Winder Rubber Wheel 112 Cord Bushing 113 Bobbin Winder Tension Bracket 114 Assembly 116 Set Screw for Bobbin Winder 117 Tension Bracket 118 Bobbin Winder Tension Bracket 119 V Belt 120 Cap For Tension Dial 121 Accessories Box 122 Oiler 123 Felt 124 Bobbin 125 Driver (Large) 126 Driver (Small) 127 Spool Pin 128 Neadle  | 63      |                             | 97      |  |
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| 66 Drop Feed Bracket Assembly 67 Drop Feed Plate Screw 68 Drop Feed Knob 69 Drop Feed Rod Bearing 70 Cotter Pin 71 Hinge Stud for Drop Feed Connecting Rod 72 Drop Feed Rod Spring 73 Drop Feed Knob Rod 74 Shuttle Race 75 Shuttle Hook 76 Bobbin Case 77 Bobbin 78 Shuttle Race Screw 79 Needle Plate 80 Slide Plate 81 Slide Plate Spring 82 Spring Screw 83 Needle Plate Set Screw 84 Face Plate Assembly 85 Face Plate Screw 86 Upper Thread Tension Knob 87 Tension Dial 88 Cap Washar for Tension Dial 89 Upper Thread Tension Spring 90 Cap for Tension Dial 91 Thread Release Washer 100 Stitch Dial Lever and Nut 101 Stitch Dial Lever and Nut 102 Stitch Dial Lever and Nut 103 Stitch Dial Lever and Nut 104 Stitch Dial Lever and Nut 105 Stitch Dial Lever and Nut 106 Stitch Dial Lever and Nut 107 Stitch Dial Lever and Nut 108 Stitch Dial Lever and Nut 109 Stitch Dial Plate Screw 100 Balance Wheel 103 Fixing Screw and Washer for Limitting Plate 104 Washer for Fixing Screw 105 Ball Ciler for Bobbin Winder 106 Bobbin Winder Assembly 107 Bobbin Winder Set Screw 109 Tag Pin 110 Head Set Screw for Head Hinge 111 Bobbin Winder Rubber Wheel 112 Cord Bushing 113 Bobbin Winder Tension Bracket 114 Accessories Box 115 Set Screw for Bobbin Winder 116 Set Screw for Bobbin Winder 117 Accessories Box 118 Bobbin Winder Tension Bracket 119 V Belt 120 Accessories Box 121 Accessories Box 122 Oiler 123 Felt 124 Bobbin 125 Driver (Large) 126 Driver (Small) 127 Spool Pin   |         |                             | 99      |  |
| 67 Drop Feed Plate Screw 68 Drop Feed Knob 69 Drop Feed Rod Bearing 70 Cotter Pin 71 Hinge Stud for Drop Feed Connecting Rod 72 Drop Feed Rod Spring 73 Drop Feed Knob Rod 74 Shuttle Race 75 Shuttle Hook 76 Bobbin Case 77 Bobbin 78 Shuttle Race Screw 79 Needle Plate 80 Slide Plate 81 Slide Plate 81 Slide Plate Spring 82 Spring Screw 83 Needle Plate Strew 84 Face Plate Assembly 85 Face Plate Screw 86 Upper Thread Tension Knob 87 Tension Dial 88 Cap Washer for Tension Dial 89 Upper Thread Tension Spring 90 Cap for Tension Dial 91 Thread Release Washer 9 Needle 91 Drop Feed Knob Rod 102 Balance Wheel 103 Fixing Screw and Washer for Limiting Plate 104 Washer for Fixing Screw 105 Ball Oiler for Bobbin Winder 106 Bobbin Winder Assembly 107 Bobbin Winder Assembly 108 Bobbin Winder Rubber Wheel 119 Cord Bushing 110 Head Set Screw for Head Hinge 110 Head Set Screw for Bobbin Winder Tension Bracket 110 Assembly 111 Set Screw for Bobbin Winder 112 Spring Screw 113 Felt 114 Bobbin 115 Driver (Large) 116 Driver (Small) 117 Spool Pin 118 Plate Screw 119 Washer for Fixing Screw 110 Bobbin Winder Assembly 1107 Bobbin Winder Assembly 111 Bobbin Winder Tension Bracket 112 Accessories Box 113 Felt 114 Bobbin 115 Driver (Large) 116 Driver (Small) 117 Spool Pin  |         |                             | 100     |  |
| 102 Balance Wheel 103 Fixing Screw and Washer for Limitting Plate 104 Washer for Fixing Screw 105 Ball Oiler for Bobbin Winder Robbin Winder Assembly 106 Bobbin Case 107 Shuttle Race 108 Bobbin Winder Rubber Wheel 109 Bobbin Winder Rubber Wheel 110 Bobbin Winder Rubber Wheel 111 Bobbin Winder Rubber Wheel 112 Cord Bushing 113 Bobbin Winder Tension Bracket 114 Accessories Box 115 Side Plate 116 Set Screw for Bobbin Winder 117 Motor Fasten Screw and Washer 118 Bobbin Winder Rubber Wheel 119 Spring Screw 110 Head Set Screw for Head Hinge 1110 Bobbin Winder Rubber Wheel 1111 Bobbin Winder Rubber Wheel 1112 Cord Bushing 112 Bobbin Winder Tension Bracket 113 Accessories Box 114 Accessories Box 115 Bobbin Winder Tension Bracket 116 Set Screw for Bobbin Winder 117 Motor Fasten Screw and Winder 118 Bobbin Winder Tension Bracket 119 V Belt 120 Cap For Tension Dial 121 Bobbin 122 Driver (Large) 123 Driver (Large) 124 Bobbin 125 Driver (Large) 126 Driver (Small) 127 Spool Pin 128 Needle  |         |                             |         |  |
| Fixing Screw and Washer for Limitting Plate  104 Washer for Fixing Screw 105 Ball Oiler for Bobbin Winder 106 Bobbin Winder Assembly 107 Bobbin Winder Set Screw 108 Name Plate Screw 109 Tag Pin 110 Head Set Screw for Head Hinge 111 Bobbin Winder Rubber Wheel 112 Cord Bushing 115 Bobbin Winder Tension Bracket 116 Set Screw for Bobbin Winder 117 Bobbin Winder Rubber Wheel 118 Slide Plate 119 Spring Screw 110 Head Set Screw for Head Hinge 111 Bobbin Winder Rubber Wheel 112 Cord Bushing 113 Bobbin Winder Tension Bracket 114 Assembly 115 Set Screw for Bobbin Winder 116 Set Screw for Bobbin Winder 117 Motor Fasten Screw and Winder 118 V Belt 119 V Belt 110 Accessories Box 110 Head Set Screw for Bobbin Winder 111 Accessories Box 112 Oiler 113 Felt 114 Bobbin 115 Driver (Large) 116 Driver (Small) 117 Spool Pin 118 Needle   |         |                             | 102     |  |
| 70 Cotter Pin 71 Hinge Stud for Drop Feed Connecting Rod 72 Drop Feed Rod Spring 73 Drop Feed Knob Rod 74 Shuttle Race 75 Shuttle Hook 76 Bobbin Case 77 Bobbin 78 Shuttle Race Screw 79 Needle Plate 80 Slide Plate 81 Slide Plate Spring 82 Spring Screw 83 Needle Plate Set Screw 84 Face Plate Assembly 85 Face Plate Assembly 86 Upper Thread Tension Dial 87 Upper Thread Tension Dial 88 Upper Thread Tension Dial 89 Upper Thread Release Washer  100 Bobbin Winder Assembly 107 Bobbin Winder Set Screw 108 Name Plate Screw 109 Tag Pin 110 Head Set Screw for Head Hinge 111 Bobbin Winder Rubber Wheel 112 Cord Bushing 113 Bobbin Winder Tension Bracket 114 Assembly 116 Set Screw for Bobbin Winder 117 Tension Bracket 118 Washer for Fixing Screw 108 Bobbin Winder Assembly 110 Head Set Screw for Head Hinge 111 Bobbin Winder Rubber Wheel 112 Sepol Pin 113 Sepol Pin 114 Washer for Fixing Screw 108 Bobbin Winder Assembly 107 Bobbin Winder Assembly 108 Name Plate Screw 119 Pin 110 Head Set Screw for Head Hinge 110 Head Set Screw for Head Hinge 111 Bobbin Winder Rubber Wheel 112 Sepol Bushing 113 Bobbin Winder Assembly 114 Sepol Bushing 115 Bobbin Winder Assembly 116 Set Screw for Bobbin Winder 117 Motor Fasten Screw and Winder 118 Name Plate Screw 119 Pin 110 Head Set Screw for Head Hinge 111 Bobbin Winder Rubber Wheel 112 Sepol Bushing 113 Bobbin Winder Assembly 114 Sepol Bushing 115 Bobbin Winder Assembly 116 Set Screw for Bobbin Winder 117 Motor Fasten Screw and Winder 118 Name Plate Screw 119 V Belt 110 Head Set Screw 110 Head Set Screw 111 Bobbin Winder Rubber Wheel 112 Sepol Bushing 115 Bobbin Winder Rubber Wheel 116 Set Screw for Bobbin Winder 117 Motor Fasten Screw and Winder 118 Name Plate Screw 119 V Belt 119 V Belt 110 Head Set Screw 111 Bobbin Winder 112 Cord Bushing 115 Bobbin Winder 116 Set Screw for Head Hinge 117 Head Set Screw 118 Head Set Screw 119 V Belt 110 Head Set Screw 110 Head Set Screw 110 Head S | -       |                             | 103     | Fixing Screw and Washer for<br>Limitting Plate |
| 72 Drop Feed Rod Spring 73 Drop Feed Knob Rod 74 Shuttle Race 75 Shuttle Hook 76 Bobbin Case 77 Bobbin 78 Shuttle Race Screw 79 Needle Plate 80 Slide Plate 81 Slide Plate Spring 82 Spring Screw 83 Needle Plate Set Screw 84 Face Plate Assembly 85 Face Plate Assembly 86 Upper Thread Tension Dial 87 Cap Washer for Tension Dial 88 Upper Thread Tension Dial 89 Upper Thread Tension Dial 90 Cap for Tension Dial 91 Thread Release Washer   | 70      | Cotter Pin                  | 104     |  |
| 72 Drop Feed Rod Spring 73 Drop Feed Knob Rod 74 Shuttle Race 75 Shuttle Hook 76 Bobbin Case 77 Bobbin 78 Shuttle Race Screw 79 Needle Plate 80 Slide Plate 81 Slide Plate Spring 82 Spring Screw 83 Needle Plate Set Screw 84 Face Plate Assembly 85 Face Plate Assembly 86 Upper Thread Tension Dial 87 Tension Dial 88 Cap Washar for Tension Dial 89 Upper Thread Tension Dial 90 Cap for Tension Dial 91 Thread Release Washer  | 71      |                             | 105     | Ball Oiler for Bobbin Winder                   |
| 73 Drop Feed Knob Rod 74 Shuttle Race 75 Shuttle Hook 76 Bobbin Case 77 Bobbin 78 Shuttle Race Screw 79 Needle Plate 80 Slide Plate 81 Slide Plate Spring 82 Spring Screw 83 Needle Plate Set Screw 84 Face Plate Assembly 85 Face Plate Assembly 86 Face Plate Assembly 87 Tension Dial 88 Cap Washar for Tension Dial 89 Upper Thread Tension Spring 90 Cap for Tension Dial 91 Thread Release Washer  |         |                             | 106     |  |
| 74 Shuttle Race 75 Shuttle Hook 76 Bobbin Case 77 Bobbin 78 Shuttle Race Screw 79 Needle Plate 80 Slide Plate 81 Slide Plate Spring 82 Spring Screw 83 Needle Plate Set Screw 84 Face Plate Assembly 85 Face Plate Screw 86 Upper Thread Tension Knob 87 Tension Dial 88 Cap Washar for Tension Dial 89 Upper Thread Tension Dial 90 Cap for Tension Dial 91 Thread Release Washer   |         |                             | 107     |  |
| 75 Shuttle Hook 76 Bobbin Case 77 Bobbin 78 Shuttle Roce Screw 79 Needle Plate 80 Slide Plate 81 Slide Plate Spring 82 Spring Screw 83 Needle Plate Set Screw 84 Face Plate Assembly 85 Face Plate Assembly 86 Upper Thread Tension Knob 87 Tension Dial 88 Cap Washer for Tension Dial 89 Upper Thread Tension Dial 90 Cap for Tension Dial 91 Thread Release Washer 110 Head Set Screw for Head Hinge 111 Bobbin Winder Rubber Wheel 112 Cord Bushing 115 Bobbin Winder Tension Bracket Assembly 116 Set Screw for Bobbin Winder Tension Bracket 117 Motor Fasten Screw and Winder 118 V Belt 119 V Belt 110 Head Set Screw for Head Hinge 110 Head Set Screw for Head Hinge 111 Bobbin Winder Rubber Wheel 112 Cord Bushing 113 Bobbin Winder Rubber Wheel 114 Sepolb in Winder Tension Bracket 115 Set Screw for Bobbin Winder 117 Motor Fasten Screw and Winder 118 Set Screw for Bobbin Winder 119 V Belt 110 Head Set Screw for Head Hinge 110 Head Set Screw for Head Hinge 112 Cord Bushing 115 Bobbin Winder Rubber Wheel 112 Cord Bushing 115 Bobbin Winder Rubber Wheel 118 Ord Bushing 119 Bobbin Winder Rubber Wheel 120 Assembly 121 Sepol Bobbin Winder Rubber Wheel 122 Cord Bushing 123 Bobbin Winder Rubber Wheel 124 Bobbin Winder Rubber Wheel 125 Cord Bushing 126 Plate Set Screw Assembly 127 Bobbin Winder Tension Bracket 128 Assembly 129 V Belt 121 Accessories Box 122 Oiler 123 Felt 124 Bobbin 125 Driver (Large) 126 Driver (Small) 127 Spool Pin 128 Needle   |         |                             | 108     | Name Plate Screw                               |
| 76 Bobbin Case 77 Bobbin 78 Shuttle Rece Screw 79 Needle Plate 80 Slide Plate 81 Slide Plate Spring 82 Spring Screw 83 Needle Plate Set Screw 84 Face Plate Assembly 85 Face Plate Assembly 86 Upper Thread Tension Mob 87 Tension Dial 88 Cap Washar for Tension Dial 89 Upper Thread Tension Dial 89 Upper Thread Tension Dial 89 Upper Thread Tension Dial 89 Thread Release Washer 81 Bobbin Winder Rubber Wheel 112 Cord Bushing 115 Bobbin Winder Rubber Wheel 116 Set Screw for Bobbin Winder 117 Motor Fasten Screw and Winder 118 Bobbin Winder Rubber Wheel 119 Bobbin Winder Rubber Wheel 110 Cord Bushing 115 Bobbin Winder Rubber Wheel 115 Bobbin Winder Rubber Wheel 116 Set Screw for Bobbin Winder 117 Motor Fasten Screw and Winder 118 Bobbin Winder Rubber Wheel 119 Bobbin Winder Rubber Wheel 110 Cord Bushing 115 Bobbin Winder Rubber Wheel 115 Bobbin Winder Rubber Wheel 116 Set Screw for Bobbin Winder 117 Motor Fasten Screw and Winder 118 Bobbin Winder Rubber Wheel 119 Bobbin Winder Rubber Wheel 119 Bobbin Winder Rubber Wheel 118 Bobbin Winder Rubber Wheel 119 Bobbin Winder Rubber Wheel 119 Bobbin Winder Rubber Wheel 110 Bobbin Winder Rubber Wheel 110 Bobbin Winder Rubber Wheel 111 Bobbin Winder Rubber Wheel 112 Cord Bushing 115 Bobbin Winder Rubber Wheel 118 Bobbin Winder Rubber Wheel 119 Bobbin Winder Rubber Wheel 119 Bobbin Winder Rubber Wheel 110 Bobbin Winder Rubber Wheel 110 Bobbin Winder Rubber Wheel 116 Set Screw Foreward 117 Motor Fasten Screw and Winder 119 V Belt 121 Accessories Box 122 Oiler 123 Felt 124 Bobbin 125 Driver (Large) 126 Driver (Small) 127 Spool Pin 128 Needle  |         |                             | 109     |  |
| 77 Bobbin 78 Shuttle Rece Screw 79 Needle Plate 80 Slide Plate 81 Slide Plate Spring 82 Spring Screw 83 Needle Plate Set Screw 84 Face Plate Assembly 85 Face Plate Screw 86 Upper Thread Tension Dial 87 Tension Dial 88 Cap Washar for Tension Dial 89 Upper Thread Tension Spring 90 Cap for Tension Dial 91 Thread Release Washer 112 Cord Bushing 115 Bobbin Winder Tension Bracket Assembly 116 Set Screw for Bobbin Winder Tension Bracket 117 Motor Fasten Screw and Winder 118 V Belt 119 Accessories Box 120 Otler 121 Bobbin 122 Driver (Large) 123 Driver (Small) 125 Driver (Small) 127 Spool Pin   | 75      | Shuttle Hook                | 110     |  |
| 78 Shuttle Roce Screw 79 Needle Plate 80 Slide Plate 81 Slide Plate Spring 82 Spring Screw 83 Needle Plate Set Screw 84 Face Plate Assembly 85 Face Plate Screw 86 Upper Thread Tension Dial 87 Tension Dial 88 Cap Washar for Tension Dial 89 Upper Thread Tension Dial 90 Cap for Tension Dial 91 Thread Release Washer  115 Bobbin Winder Tension Bracket Assembly 116 Set Screw for Bobbin Winder Tension Bracket Assembly 117 Motor Fasten Screw and Winder 118 Delte Tension Bracket Assembly 119 Medic Tension Bracket Assembly 110 Set Screw for Bobbin Winder Tension Bracket Assembly 110 Set Screw for Bobbin Winder Tension Bracket Assembly 111 Motor Fasten Screw and Winder 112 Accessories Box 112 Bobbin 113 Bobbin Winder Tension Bracket Assembly 115 Bobbin Winder Tension Bracket Assembly 116 Set Screw for Bobbin Winder Tension Bracket 117 Motor Fasten Screw and Winder 118 Bobbin Winder Tension Bracket Assembly 118 Bobbin Winder Tension Bracket Assembly 119 Motor Fasten Screw and Winder 119 V Belt 121 Accessories Box 122 Oiler 123 Felt 124 Bobbin 125 Driver (Large) 126 Driver (Small) 127 Spool Pin 128 Needle  | 76      | Bobbin Case                 |         |  |
| Assembly  Needle Plate  Slide Plate  Slide Plate Spring  Spring Screw  Needle Plate Set Screw  Needle Plate Set Screw  Needle Plate Set Screw  Say Needle Plate Set Screw  Say Face Plate Assembly  Spring Screw  Lip Washer For Tension Knob  Tension Dial  Cap Washer for Tension Dial  Upper Thread Tension Dial  Upper Thread Tension Dial  Thread Release Washer  Assembly  116 Set Screw for Bobbin Winder  Tension Bracket  117 Motor Fasten Screw and Winder  128 Belt  129 Driver (Large)  120 Driver (Small)  121 Driver (Small)  122 Spool Pin  123 Needle  | 77      | Bobbin                      |         |  |
| 79 Needle Plate 80 Slide Plate 81 Slide Plate Spring 82 Spring Screw 83 Needle Plate Set Screw 84 Face Plate Assembly 85 Face Plate Screw 86 Upper Thread Tension Knob 87 Tension Dial 88 Cap Washar for Tension Dial 89 Upper Thread Tension Spring 90 Cap for Tension Dial 91 Thread Release Washer  116 Set Screw for Bobbin Winder Tension Bracket 117 Motor Fasten Screw and Winder 128 Pelt 121 Accessories Box 122 Oiler 123 Felt 124 Bobbin 125 Driver (Large) 126 Driver (Small) 127 Spool Pin 128 Needle   | 78      | Shuttle Race Screw          | 115     |  |
| 80 Slide Plate 81 Slide Plate Spring 82 Spring Screw 83 Needle Plate Set Screw 84 Face Plate Assembly 85 Face Plate Screw 86 Upper Thread Tension Knob 87 Tension Dial 88 Cap Washar for Tension Dial 89 Upper Thread Tension Spring 90 Cap for Tension Dial 91 Thread Release Washer  Tension Bracket 117 Motor Fasten Screw and Winder 120 V Belt 121 Accessories Box 122 Oiler 123 Felt 124 Bobbin 125 Driver (Large) 126 Driver (Small) 127 Spool Pin 128 Needle   | 79      | Needle Plate                | 114     |  |
| 81 Slide Plate Spring 82 Spring Screw 83 Needle Plate Set Screw 84 Face Plate Assembly 85 Face Plate Screw 86 Upper Thread Tension Knob 87 Tension Dial 88 Cap Washar for Tension Dial 89 Upper Thread Tension Spring 90 Cap for Tension Dial 91 Thread Release Washer  117 Motor Fasten Screw and Winder 118 V Belt 121 Accessories Box 122 Oiler 123 Felt 124 Bobbin 125 Driver (Large) 126 Driver (Small) 127 Spool Pin 128 Needle  | 80      | Slide Plate                 | 110     |  |
| 82 Spring Screw 83 Needle Plate Set Screw 84 Face Plate Assembly 85 Face Plate Screw 86 Upper Thread Tension Knob 87 Tension Dial 88 Cap Washer for Tension Dial 89 Upper Thread Tension Spring 90 Cap for Tension Dial 91 Thread Release Washer 119 V Belt 121 Accessories Box 122 Oiler 123 Felt 124 Bobbin 125 Driver (Large) 126 Driver (Small) 127 Spool Pin 128 Needle   | 81      |                             | 117     |  |
| 83 Needle Plate Set Screw 84 Face Plate Assembly 85 Face Plate Screw 86 Upper Thread Tension Knob 87 Tension Dial 88 Cap Washar for Tension Dial 89 Upper Thread Tension Spring 90 Cap for Tension Dial 91 Thread Release Washer 121 Accessories Box 122 Oiler 123 Felt 124 Bobbin 125 Driver (Large) 126 Driver (Small) 127 Spool Pin   | -       |                             |         |  |
| 122 Oiler   123 Felt   124 Bobbin   125 Driver (Large)   126 Driver (Small)   127 Spool Pin   128 Needle   |         |                             |         |  |
| 86         Upper Thread Tension Knob         123         Felt           87         Tension Dial         124         Bobbin           88         Cap Washer for Tension Dial         125         Driver (Large)           89         Upper Thread Tension Spring         126         Driver (Small)           90         Cap for Tension Dial         127         Spool Pin           91         Thread Release Washer         128         Needle   |         |                             |         |  |
| 87 Tension Dial         124 Bobbin           88 Cap Washer for Tension Dial         125 Driver (Large)           89 Upper Thread Tension Spring         126 Driver (Small)           90 Cap for Tension Dial         127 Spool Pin           91 Thread Release Washer         128 Needle   | -       | 1 444 7 1417                |         |  |
| 88 Cap Washer for Tension Dial 89 Upper Thread Tension Spring 90 Cap for Tension Dial 91 Thread Release Washer 125 Driver (Large) 126 Driver (Small) 127 Spool Pin 128 Needle  |         |                             |         |  |
| 89 Upper Thread Tension Spring 126 Driver (Small) 90 Cap for Tension Dial 127 Spool Pin 91 Thread Release Washer 128 Needle  |         |                             | 10000   |  |
| 90 Cap for Tension Dial 127 Spool Pin 128 Needle   | -       |                             |         |  |
| 91 Thread Release Washer 127 Spool Pin 128 Needle  |         |                             |         |  |
| 92 Tension Disc 128 Needle   | 91      | Thread Release Washer       |         |  |
|  | 92      | Tension Disc                | 128     | Needle   |
|  |         |                             |         |  |

